

SL 100-19  
8-13-81

# FIAT SERVICE LETTER

SUBJECT: ENGINE VALVE STEM OIL SEAL REPLACEMENT

VEHICLES: ALL MODELS

SERVICE  
INFORMATION

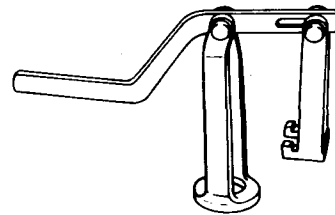
Attached is a new repair procedure for replacing the engine valve stem oil seals. The new procedure permits the replacement of the oil seals without removing the cylinder head. This is accomplished by using compressed air to pressurize each engine cylinder, thereby keeping the valves in a closed position while the seals are being replaced.

TOOL  
INFORMATION:

Tools required to perform the new procedure:

Description

- Valve Spring Compressor  
- Tool No. J28067 (Kent-Moore)
- Valve Guide Seal Installer and Protector  
- Tool No. J28069 (Kent-Moore)
- Compressor Gauge Hose and Adaptor - 14mm  
- Any Hose/adaptor, approx. 11" long  
(Diagram is Snap-on-Tool No. MT26-10B)



OVER

READ, INITIAL AND PASS ON

Service Manager	Parts Manager	Service Writer	Technician

PARTS

Engine	Description	Part No.	Qty.
1995cc	Valve Cover Gasket	4158646	2
	Camshaft Housing Gasket	4390870	2
	Valve Stem Oil Seals	4370933	8
	Timing Belt	4201739	1
1498cc	Valve Cover Gasket	4300225	1
	Camshaft Housing Gasket	4327158	1
	Valve Stem Oil Seals	4174355	
	Timing Belt	4401261	1

WARRANTY

INFORMATION: For vehicles within the normal warranty period:

- Use the following operation number and time allowance for replacement of the valve stem oil seals in combination with the appropriate R & R Camshaft Housing operation and time allowance for the vehicle being repaired.

Description	Operation Number	Time Allowance
*R & R valve stem oil seals	1010156	1.0 hrs

\*Operation number and time allowance pertain to all models.

Example: Replacement of the valve stem oil seals on a carbureted Strada without air conditioning.

Description	Operation No.	Time Allowance
R & R Camshaft Housing	1010110	3.0 hrs
R & R Valve Stem oil seals	1010156	<u>1.0 hrs</u>
Total Time Allowance		4.0 hrs

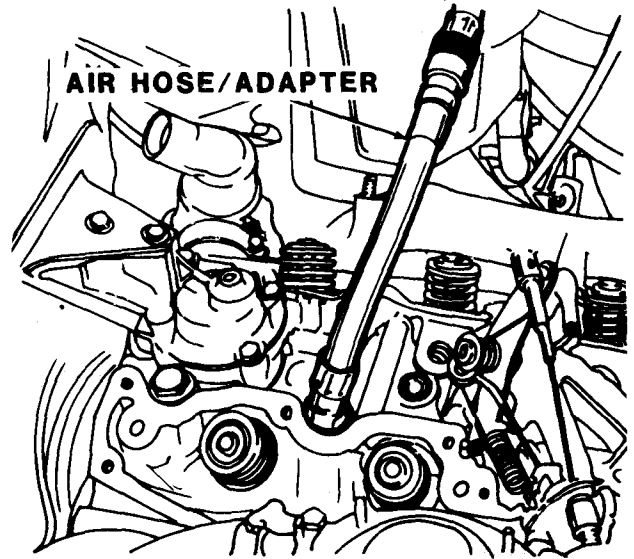
The service time schedules will have the new operation number and time allowance listed in its next printing.

## VALVE STEM OIL SEALS REPLACEMENT PROCEDURE

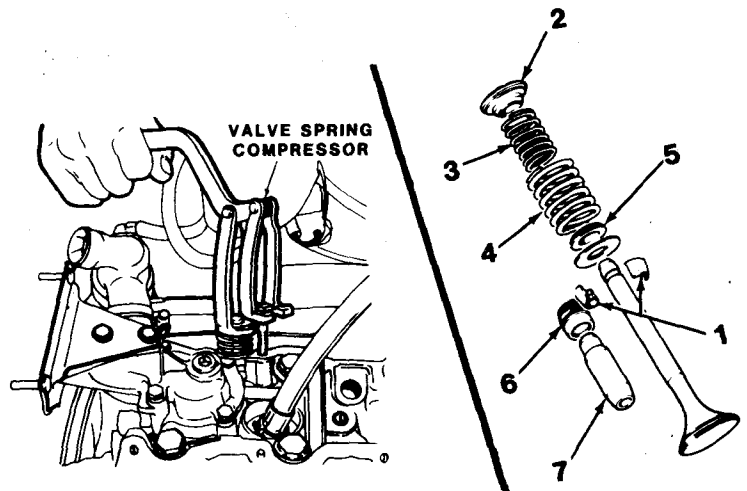
Before performing the following procedure, the camshaft housing(s) must have already been properly removed from the engine cylinder head.

- Remove spark plug in engine cylinder No. 1. Make sure piston is approximately 2/3 up the cylinder.
- Screw in compressor gauge hose/adaptor into spark plug hole in cylinder head.
- Connect an air hose to adaptor. Pressurize cylinder to approximately 120 to 150 psi.

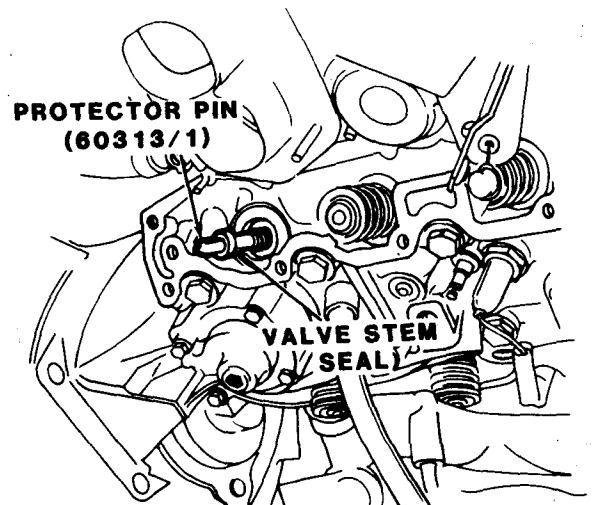
**IMPORTANT:** The cylinder must remain pressurized until both intake and exhaust side valve stem oil seals are replaced. Perform and complete seal replacement procedure on one cylinder at a time.



- Using Valve Spring Compressor, Kent-Moore Tool No. J28067, compress valve springs. Remove valve keepers (1). Slowly release tension from springs. Remove tool, upper cup (2), inner/outer springs (3 & 4) and lower cup (5) from valve stem.
- Remove valve stem seal (6). Make sure all portions of the seal have been removed from valve guide (7).

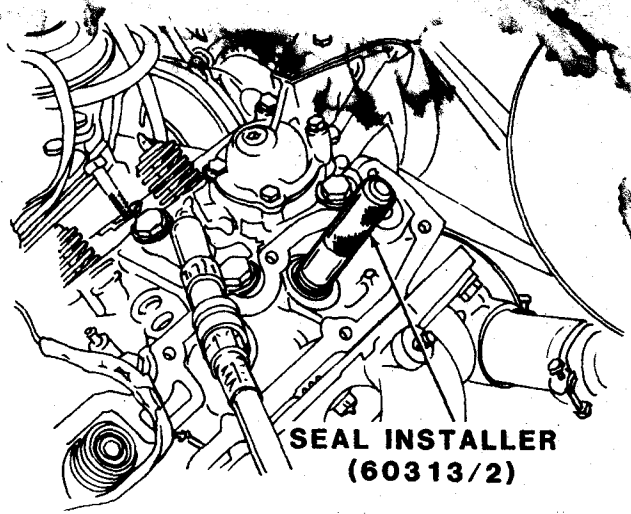


- Using a light grease, lubricate the seal protector pin (60313/1) of Valve Guide Seal Installer and Protector, Kent-Moore Tool No. J28069.
- Place protector pin on end of valve stem.
- Slide new oil seal down pin and valve stem onto guide. Remove protector pin.



- Place installer (60313/2) of Kent-Moore tool No. J28069 over valve stem seal.
- Lightly tap end of installer until oil seal is properly seated on valve guide. Remove installer.

**IMPORTANT:** Oil seal must be properly seated on valve guide.



- Reinstall lower cup, inner and outer springs, upper cup onto valve stem.
- Using Valve Spring Compressor, Tool No. J28067, compress valve springs and reinstall valve keepers.  
Release tension from springs. Remove tool.
- Repeat valve stem oil seal replacement on the other valve of engine cylinder No. 1.
- After the valve stem seal replacement has been completed on both intake and exhaust valves of engine cylinder No. 1, release air pressure hose from compression gauge hose/adaptor.  
Remove hose/adaptor from spark plug hole in cylinder head.
- Reinstall spark plug.
- Repeat the oil seal replacement procedure on the valves of the remaining three engine cylinders.
- Properly reinstall camshaft housing(s) and related components onto cylinder head.

**NOTE:** Do not reinstall removed timing belt. Replace belt.